What is claimed is:

A method for repairing inoperative pixels in a display, comprising:

identifying defective drive circuitry for the inoperative pixel;

disconnecting the defective drite circuitry from the inoperative pixel; and

connecting the inoperative pixel to a working drive circuit of a nearby pixel.

A method in accordance with claim 1, wherein the step of connecting the inoperative pixel to a working drive circuit of a nearby pikel further comprises:

providing additional dircuitry associated with each pixel in the display/ which circuitry connects the inoperative pixel to/the working drive circuit of a nearby pixel.

- A method in accordance with claim 2, wherein the additional circuitry comprises a bypass bit latch, such that when the bypass bit is set, the defective drive circuitry is bypassed and the inoperative pixel is driven from the working drive circuit of a nearby pixel.
- A method/in accordance with claim 3, wherein the bypass bit is loaded from an external memory after the display is/turned on.

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5. A method in accordance with claim 3, wherein the step of providing additional circuitry further comprises:

multiplexing the drive circuits of each pixel with the drive circuit of a nearby pixel.

- 6. A method in accordance with claim 3, wherein the additional circuitry further comprises:
- a tri-state transistor associated with each pixel connected to the bypass bit latch; and
  - a resistor coupling neighboring pixels;

such that when the bypass bit is set, the transistor is switched to bypass the defective drive circuitry so that the inoperative pixel is driven from the working drive circuit of a nearby pixel through the resistor.

- 7. A method in accordance with claim 2, wherein the additional circuitry comprises:
- a resistive connection between neighboring pixel metal layers;

wherein disconnecting the defective drive circuitry is accomplished by severing a via connecting the defective drive circuitry to the inoperative pixel, such that the inoperative pixel is driven by a nearby pixel through the resistive connection.

8. A method in accordance with claim 7, wherein the via is severed by one of laser ablation, melting or ablation of a fusible link by passing sufficient

current through it, selective chemical etching using a photoresist or other selection means, melting or ablation with an electron beam, melting or ablation with a focused microwave or other electro-magnetic beam, electro-ionic erosion, or physical cutting or removal of the metal using a sharp or abrasive implement or probe.

9. A method in accordance with claim 2, wherein the additional circuitry comprises:

a capacitive connection between neighboring pixel metal layers;

wherein disconnecting the defective drive circuitry is accomplished by severing a via connecting the defective drive circuitry to the inoperative pixel, such that the inoperative pixel is driven by a nearby pixel through the capacitive connection.

10. A method in accordance with claim 9, wherein the via is severed by one of laser ablation, melting or ablation of a fusible link by passing sufficient current through it, selective chemical etching using a photoresist or other selection means, melting or ablation with an electron beam, melting or ablation with a focused microwave or other electro-magnetic beam, electro-ionic erosion, or physical cutting or removal of the metal using a sharp or abrasive implement or probe.

- 11. A method in accordance with claim 1, wherein the pixels are repaired in groups.
- 12. A method in accordance with claim 1, wherein identifying defective drive circuitry comprises the further step of providing test circuitry associated with the display.
- 13. A method in accordance with claim 1, wherein the pixel drive circuitry associated with each pixel is located separately from each pixel.
- 14. A method in accordance with claim 1, wherein the display is a liquid crystal micro-display.
- 15. An electronic display apparatus capable of repairing inoperative pixels, comprising:

a plurality of pixels;

drive circuitry for controlling the pixels;

means for disconnecting defective drive circuitry from an inoperative pixel; and

means for connecting the inoperative pixel to a working drive circuit of a nearby pixel.

16. Apparatus in accordance with claim 15, wherein the means for connecting the inoperative pixel to a working drive circuit comprises:

additional circuitry associated with each pixel in the display, which circuitry connects the

inoperative pixel to the working drive circuit of a nearby pixel.

- 17. Apparatus in accordance with claim 16 wherein the additional circuitry comprises a bypass bit latch, such that when the bypass bit is set, the defective drive circuitry is bypassed and the inoperative pixel is driven from the working drive circuit of a nearby pixel.
- 18. Apparatus in accordance with claim 17, wherein the bypass bit is loaded from an external memory after the display is turned on.
- 19. Apparatus in accordance with claim 17, wherein the additional circuitry further comprises:

multiplexing circuitry associated with the bypass bit latch.

- 20. Apparatus in accordance with claim 17, wherein the additional circuitry further comprises:
- a tri-state transistor associated with each pixel connected to the bypass bit latch; and
  - a resistor/coupling neighboring pixels;

such that when the bypass bit is set, the transistor is switched to bypass the defective drive circuitry so that the inoperative pixel is driven from the working drive circuit of a nearby pixel through the resistor.

21. Apparatus in accordance with claim 16, wherein the additional circuitry comprises:

a resistive connection between neighboring pixel metal layers;

wherein the defective drive circuitry can be disconnected from the inoperative pixel by severing a via connecting the defective drive circuitry to the inoperative pixel, such that the inoperative pixel is driven by a nearby pixel through the resistive connection.

- 22. Apparatus in accordance with claim 21, wherein the via is severed by one of laser ablation, melting or ablation of a fusible link by passing sufficient current through it, selective chemical etching using a photoresist or other selection means, melting or ablation with an electron beam, melting or ablation with a focused microwave or other electro-magnetic beam, electro-ionic erosion, or physical cutting or removal of the metal using a sharp or abrasive implement or probe.
- 23. Apparatus in accordance with claim 16, wherein the additional circuitry comprises:

a capaditive connection between neighboring pixel metal layers;

wherein the defective drive circuitry can be disconnected from the inoperative pixel using by severing a via connecting the defective drive circuitry to the inoperative pixel, such that the

inoperative pixel is driven by a nearby pixel through the capacitive connection.

- 24. Apparatus in accordance with claim 23 wherein the via is severed by one of laser ablation, melting or ablation of a fusible link by passing sufficient current through it, selective chemical etching using a photoresist or other selection means, melting or ablation with an electron beam, melting or ablation with a focused microwave or other electro-magnetic beam, electro-ionic erosion, or physical cutting or removal of the metal using a sharp or abrasive implement or probe.
- 25. Apparatus in accordance with claim 15, wherein the pixels are repaired in groups.
- 26. Apparatus in accordance with claim 15, further comprising test circuitry to identify the defective drive circuitry.
- 27. Apparatus in accordance with claim 15, wherein the pixel drive circuitry associated with each pixel is located separately from each pixel.
- 28. Apparatus in accordance with claim 15, wherein the display comprises a liquid crystal micro-display.